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MEDITERRANEAN OPISTHOBRANCH MOLLUSCS: A ZOOGEOGRAPHIC APPROACH***

Riassunto

La zoogeografia dei Molluschi Opistobranchi mediterranei è ancora assai poco conosciuta. Questa fauna, con oltre 400 specie, appare il complesso risultato di successive colonizzazioni avvenute in differenti periodi climatici.

I taxa più importanti sono i Doridina (126 specie), i Bullomorpha (89) e gli Aeolidiina (71). Le famiglie più importanti, ciascuna con almeno 10 specie, sono i Retusidae, Atyidae, Philinidae, Hermaeidae, Polyceridae, Goniodorididae, Chromodorididae, Discodorididae, Dotidae, Facelinidae and Tergipedidae. Queste famiglie abbracciano solo il 40% dell'intera fauna dei molluschi opistobranchi del Mediterraneo.

Lo studio zoogeografico, condotto anche con l'analisi delle corrispondenze, rivela che gli endemismi mediterranei (110 specie) sono la categoria più importante, seguita da vicino da quelle Atlantico-Mediterranea e Boreale con 96 specie ciascuna. 27 specie presentano un'affinità Atlantico subtropicale, mentre 14 specie tendono ad avere una distribuzione Circum-tropicale. Alcuni generi presenti in Mediterraneo (*Chelidonura, Petalifera, Kaloplocamus, Madrella*) possono considerarsi relitti della Tetide. Questi non debbono essere confusi con i recenti migranti lessepsiani, come *Melibe fimbriata, Hypselodoris infucata* ecc.

Altri opistobranchi ad affinità Indopacifica tuttavia, come Bursatella leachi e Discodoris fragilis, potrebbero essere entrati nel Mediterraneo non attraverso il Canale di Suez, ma via

Capo di Buona Speranza, dallo Stretto di Gibilterra.

Summary

The opisthobranch fauna of the Mediterranean Sea consists of approximately 400 species in 72 families, and is an amalgam of different colonizations which happened in different climatic periods. The most important major groups are the Doridina (126 species), Bullomorpha (89) and Aeolidiina (71). The most important families, each with at least 10 species, are Retusidae, Atyidae, Philinidae, Hermaeidae, Polyceridae, Goniodorididae, Chromodorididae, Discodorididae, Dotidae, Facelinidae and Tergipedidae.

These families hold 40% of the entire opisthobranch fauna of the Mediterranean.

Zoogeographic analyses revealed that the largest opisthobranch category was Mediterranean endemic (110 species), followed by Atlantic-Mediterranean (96) and Boreal (96). 27 species had a Subtropical Atlantic affinity, compared with 14 species having a Circumtropical affinity. A number of genera present in Mediterranean (Chelidonura, Petalifera, Kaloplocamus, Madrella) are relics of the early tethyan fauna. These should not be confued with recent Lessepsian immigrants from the Red Sea, such as Melibe fimbriata, Hypselodoris infucata and others. Certain other Indo-Pacific opisthobranchs, such as Bursatella leachi and Discodoris fragilis, may have entered the Mediterranean in recent times, not through the Suez Canal, but via the Cape of Good Hope, the tropical eastern Atlantic and the Gibraltar Strait.

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Introduction

The Mediterranean Sea is an important area for zoogeographic study because of its connection with the Atlantic Ocean, its recent union with the Red Sea, its relative isolation and because of the complex geological, climatic and ecological changes which have occurred during its history.

Moreover the Mediterranean presents features which are significantly different from other seas placed in the same latitudes (30°-45° N), such as higher water temperature in the Mediterranean winter, and higher salinity year-round.

The zoogeography of the opisthobranchs of the Mediterranean has been neglected compared with that of the northwest Atlantic (Franz, 1970; 1975), the northeast Atlantic (Lemche, 1938) or southern Africa (Gosliner, 1987).

Good taxonomy is basic to successful zoogeographical comparison, and much progress has been made, building on the encyclopaedic *Faune de France* volume of PRUVOT-FOL (1954). As table 1 shows, the number of species recorded from the Mediterranean area since 1954 has increased by 90%, according to recent check-lists (BRUSCHI *et al.*, 1985, CATTANEO & BARLETTA, 1984; CERVERA *et al.*, 1988; TEMPLADO *et al.*, in press).

An appendix to the present paper gives an up-to-date check-list, based upon the published literature and our own expeditions.

Table 1. Mediterranean Opisthobranchia: recent growth in number of species recorded.

PF: number of species according to PRUVOT-FOL (1954) (excluding «incertae sedis»).

PP: number of species according to the present paper

	PF	PP	% increase
Bullomorpha (= Cephalaspidea)	46	89	93.4
Aplysiomorpha	6	13	116.0
Runcinacea	2	8	300.0
Acochlidiacea	6	10	66.6
Philinoglossacea	1	4	300.0
Pleurobranchomorpha (= Notaspidea)	12	13	8.3
Sacoglossa (= Ascoglossa)	22	32	45.4
Doridina			
Anadoridoidea	14	32	128.0
Eudoridoidea	35	67	91.4
Polyceratoidea	6	12	100.0
Porodoridoidea	11	15	36.3
Dendronotina	18	33	83.3
Arminina	8	10	25.0
Aeolidiina	28	71	153.0
Opisthobranchia	215	409	90.2

Material and methods

The bulk of data have been abstracted from key papers (Pruvot-Fol, 1954; Thompson, 1976; Marcus, 1977; Barash & Danin, 1982; Schmekel & Portmann, 1982; Thompson & Brown, 1984; Bruschi *et al.*, 1985; Cattaneo & Barletta, 1984; Hoisaeter, 1986; Edmunds, 1977; Cervera, *et al.*, Thompson, 1988; Templado *et al.* in press).

Each species listed in the Appendix was placed in a zoogeographic category. The categories were defined so as to be mutually exclusive. The data were processed using correspondence analysis (Benzecri *et al.*, 1973).

The terminology and boundaries of the geographic areas were defined as follows (adapted from Briggs, 1974; Fred, 1974 and Vermei, 1980):

- Mediterranean sub-province, including Gibraltar and the Gulf of Cadiz.
- **AM** Atlantic-Mediterranean Region, from Cape Verde Islands to the Channel, including Mediterranean and Black Seas.
- **B** Boreal region,
- AT Subtropical Atlantic region,
- IP Indo-Pacific region,
- **CT** Circumtropical region,
- C Cosmopolitan (present in at least two oceans, and having a wide latitudinal distribution).
- Doubtful species, recorded only once in the Mediterranean Sea.
 These have not been included in the analyses.

At the present time there are insufficient data to permit a useful comparison between different sub-areas of the Mediterranean (Alboran, Adriatic, Tyrrhenian, Aegean, Black Seas etc.).

Results

To date, approximately 400 valid species of benthic opisthobranch molluscs (i.e., excluding the gymnosome and thecosome «pteropods») have been recorded from the Mediterranean Sea (see Appendix). The most important subgroups are the Doridina (126 species), Bullomorpha (= Cephalaspidea) (89 species) and Aeolidiina (71 species). About 30 species belong to the Dendronotina and a similar number to the Sacoglossa.

The Aplysiomorpha, Arminina and Pleurobranchomorpha (= Notaspidea) present few species (about 10 in each), while Runcinacea and Acochlidiacea are too little known to be useful in zoogeographical considerations.

Table 2 presents an analysis of the taxa.

The largest category is Mediterranean endemic (110 species, > 26%), followed by Atlantic-Mediterranean (96 species, > 23%), and Boreal (96 > 23%). This last category embraces also those Arctic species whose presence in the Mediterranean has been claimed but remains unconfirmed: *Ancula gibbosa, Adalaria proxima, Acanthodoris pilosa, Cadlina laevis*.

Tab. 2 Mediterranean Opisthobranchs: presence of species in zoogeographic categories.

	Tot	E	AM	В	AT	CT	IP	С	?
Bullomorpha	89	24	19	27	7	0	3	1	8
Aplysiomorpha	13	1	2	2	0	4	3	0	1
Runcinacea	8	4	2	2	0	0	0	0	0
Acochlidiacea	10	5	2	1	1	0	0	0	1
Philinoglossacea	4	0	0	3	0	0	0	0	1
Sacoglossa	32	11	9	3	4	1	1	1	2
Pleurobranchomorpha	13	1	3	2	2	3	1	0	1
Anadoridoidea	32	6	9	11	1	0	2	1	2
Eudoridoidea	67	18	27	7	2	1	3	0	9
Polyceratoidea	12	4	0	4	2	2	0	0	0
Porodoridoidea	15	2	7	0	1	0	1	0	4
Dendronotina	33	10	5	8	3	1	1	1	4
Arminina	10	2	3	2	0	0	1	0	2
Aeolidiina	71	22	8	24	4	2	1	2	8
Opisthobranchia	409	110	96	96	27	14	17	6	43

Percent value of zoogeographic categories.

	E	AM	В	AT	CT	IP	С	?
Bullomorpha	27.0	21.3	30.3	7.9	0.0	3.4	1.1	9.0
Aplysiomorpha	7.7	15.4	15.4	0.0	30.8	23.1	0.0	7.7
Runcinacea	50.0	25.0	25.0	0.0	0.0	0.0	0.0	0.0
Acochlidiacea	50.0	20.0	10.0	10.0	0.0	0.0	0.0	10.0
Philinoglossacea	0.0	0.0	75.0	0.0	0.0	0.0	0.0	25.0
Sacoglossa	34.4	28.1	9.4	12.5	3.1	3.1	3.1	6.3
Pleurobranchomorpha	7.7	23.1	15.4	15.4	23.1	7.7	0.0	7.7
Anadoridoidea	18.8	28.1	34.3	3.1	0.0	6.3	3.1	6.3
Eudoridoidea	26.9	40.3	10.4	3.0	1.5	4.5	0.0	13.4
Polyceratoidea	33.3	0.0	33.3	16.7	16.7	0.0	0.0	0.0
Porodoridoidea	13.3	46.7	0.0	6.7	0.0	6.7	0.0	26.7
Dendronotina	30.3	15.2	24.2	9.1	3.0	3.0	3.0	12.1
Arminina	20.0	30.0	20.0	0.0	0.0	10.0	0.0	20.0
Aeolidiina	31.0	11.3	33.8	5.6	2.8	1.4	2.8	11.3
Opisthobranchia	26.9	23.5	23.5	6.6	3.4	4.2	1.5	10.5

The table includes 27 species (> 6%) with a subtropical Atlantic affinity, compared with 14 species (> 3%) having a Circumtropical affinity. Only 17 species (4.2%) present an Indo-Pacific affinity and a mere 6 species (1.5%) can be considered cosmopolitan.

There is an urgent need for more faunistic recording in the Mediterranean, because the list contains a significantly large number of doubtful

species (approximately 10%) recorded no more than once.

Fig. 1 gives the results of a correspondence analysis based upon orders or suborders, expressing the number % of species belonging to each zoogeographic category. The smallest taxa (Runcinacea, Acochlidiacea, Philinoglossacea) are omitted from consideration.

This shows a number of interesting features:

- 1. Mediterranean pleurobranchomorphs and aplysiomorphs have a distinct Circum-tropical and Indo-Pacific affinity.
- 2. Porodorids, arminaceans and eudorids are predominantly Atlantic-Mediterranean components.
- 3. Polycerids and eolids show a strong Boreal affinity.
- 4. Within the bullomorphs, pseudodorids and dendronotaceans some genera (*Philine, Diaphana, Okenia, Tritonia* and *Doto*) are associated with cool waters, whereas others (*Bulla, Haminoea, Trapania, Aegires, Marionia* and *Tethys*) are linked to warmer waters.
- 5. Many sacoglossans fall into the Mediterranean- endemic category; a few (*Elysia* and *Hermaea*) are linked to warm waters.
- 6. There was no positive correlation between the Cosmopolitan and Tropical Atlantic categories and any particular super-specific taxa.
- Fig. 2 expresses the correspondence analysis applied to families of opisthobranch molluscs.

General speaking, the relationships are less clear than in Fig. 1. We can, however, distinguish two major groupings of families, with cool water and warm water affinity, respectively.

Certain other trends can be recognized:

- The families Philinidae, Retusidae, Dotidae, Tritoniidae, Facelinidae and Eubranchidae exhibit good Boreal affinity, whereas the Hermaeidae, Pleurobranchidae, Chromodorididae and Discodorididae show more affinity to the Atlantic-Mediterranean group.
- 2. The Bullidae and certain families of sacoglossans (Bosellidae and Polybranchiidae) have affinity with the Subtropical Atlantic area, while Dolabriferidae, Dendrodorididae and Tethyidae have their roots in the Indo-Pacific.
- 3. The Elysiidae, Aplysiidae and Phylliroidae are Circumtropical families.



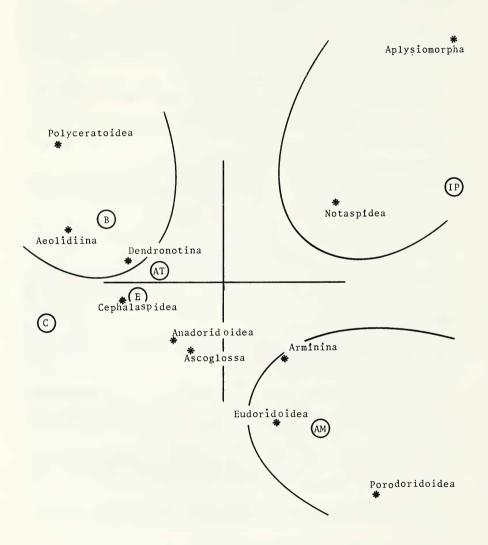


Fig. 1. Diagram showing ordination models obtained using correspondence analysis between zoogeographical categories and Mediterranean opisthobranch order or suborder. The data employed were number % of species belonging to each zoogeographic category. Certain small taxa were omitted.

Variance percentages yielded by x: 41.0% Variance percentages yielded by y: 36.6%

Bullidae

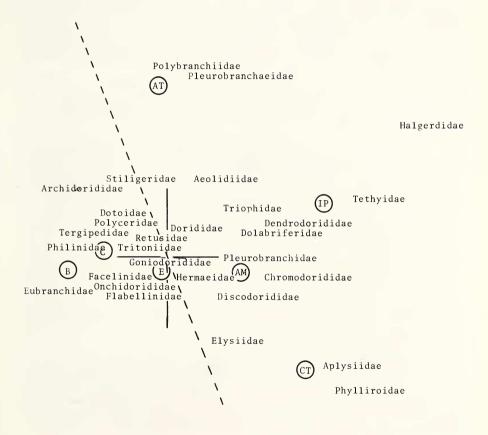


Fig. 2. Diagram showing ordination models obtained using correspondence analysis between zoogeographical categories and Mediterranean opisthobranch families. Certain small families were omitted. The dashed line divides the «cold» from the «warm» affinity families.

Variance percentages yielded by x: 25.5% Variance percentages yielded by y: 13.6%

Discussion

At least 72 families of opisthobranch molluscs are present in the Mediterranean Sea of today. The most important families, each having at least 10 species are the Retusidae, Atyidae, Philinidae, Hermaeidae, Polyceridae, Goniodorididae, Chromodorididae, Discodorididae, Dotidae, Facelinidae and Tergipedidae.

These embrace 40% of the valid species recorded.

The rate of endemism is fairly high (> 26%) as might be expected in such a partially closed sea (Ekman, 1967). This rate will probabily change significantly in the future when little-known groups like the Acochlidiacea, Runcinacea, Porodoridoidea are opened up for study.

On the other hand, there is truly a strong affinity between the Mediterranean opisthobranch species (especially the eudorids and porodorids) and the Atlantic-Mediterranean group (23.5%). A similarly strong affinity (23.5%) can be demonstrated within the Boreal group, probably comprising immigrants following the glacial periods (mostly Philinidae, Onchidorididae, Coryphellidae and Facelinidae).

Those species with Subtropical Atlantic affinity probably entered the Mediterranean basin through the Gibraltar Strait during the interglacial periods (Pérès, 1985). Unfortunately the Mauretanian region is generally poorly known at present.

It is easy to dismiss the Mediterranean species which occur also in the Indo-Pacific region as «tethyan relicts». According to Pérès (1985), however, it is incorrect to speak about «tethyan species», but only about «tethyan genera». Accepting this viewpoint, we can consider a small number of Mediterranean genera to be relicts of the tropical early tethyan fauna, viz., Chelidonura, Petalifera, Kaloplocamus, Madrella. It is important that these should not be confused with Lessepsian immigrants (Por, 1978) which have entered the Mediterranean Sea from the Red Sea during the century since the Suez Canal was opened to shipping, viz., Pleurobranchus forskali, Chromodoris quadricolor, Hypselodoris infucata, Discodoris concinna and Melibe fimbriata. Aplysia parvula, Bursatella leachi and Discodoris fragilis are widespread and well-known Indo-Pacific opisthobranchs which have now been recorded from the Atlantic Ocean (for example, Ortea et al., 1981) and may have entered the Mediterranean Sea not by the Lessepsian route but through the Gibraltar Strait.

Truly cosmopolitan species are very rare, and are generally planktonic or neustonic forms, such as *Scyllaea pelagica* and *Fiona pinnata*. Some planktonic opisthobranch species, such as *Phylliroe bucephala, Cephalopyge trematoides* and *Glaucus atlanticus* are strictly subtropical, not cosmopolitan. A similar stricture applies to the benthic *Berthella stellata* (Gosliner & Bertsch, 1988).

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APPENDIX - CHECK LIST OF THE MEDITERRANEAN OPISTHOBRANCHS

On left column, the zoogeographic category for each species is reported.

E: endemic Mediterranean; AM: Atlantic-Mediterranean region; B: Boreal region; AT: Subtropical Atlantic region; IP: Indo-Pacific region; CT: Circumtropical region; C: Cosmopolitan species; ??: doubtul species

Ordo BULLOMORPHA (= CEPHALASPIDEA)

Familia Acteonidae D'Orbigny, 1835

- В Acteon tornatilis (L. 1758) [Voluta]
 - ? = A. luteo-fasciatus (MUEHLFELDT, 1829) [Voluta]
- E. Acteon monterosatoi DAUTZENBERG, 1889
- Ε Bullinopersilia sphaeroides Nordsieck, 1972
- ΑT Crenilabium exile (FORBES in JEFFREYS, 1870) [Acteon]
- AM Iaponacteon pusillus (FORBES, 1844) [Acteon]
- Liocarenus globulinus (FORBES, 1844) [Tornatella] AM
- Ε Pupa candidula (MONTEROSATO, 1923) [Acteon]

Familia Diaphanidae ODHNER, 1914

- Diaphana minuta Brown, 1827
- E Diaphana cretica (Forbes, 1844) [Bulla]
- В Diaphana expansa (JEFFREYS, 1864) [Amphispyra]
- Diaphana ventrosa (Jeffreys, 1867)
- E Diaphana quadrata (MONTEROSATO, 1874) [Amphispyra]
- В Diaphana lactea (JEFFREYS, 1877) [Utriculus]
 - = D. jonica Di Geronimo, 1974
- AM Colobocephalus striatulus (Monterosato, 1874)

Familia Retusidae THIELE, 1926

- Retusa truncatula (Bruguière, 1792) [Bulla]
- В Retusa obtusa (Montagu, 1803) [Bulla]
- B Retusa umbilicata (MONTAGU, 1803) [Bulla]
 - = Cylichnina subcylindrica (Brown, 1844)
 - = Cylichnina nitidula (Loven, 1846) [Cylichna]
- IΡ Retusa fourierii (AUDOUIN, 1826) [Bulla]
- AM Retusa semisulcata (PHILIPPI, 1836)
- ΑT Retusa leptoeleinema (BRUSINA, 1866) [Cylichna]
- В Retusa pellucida G.O. SARS, 1878
- Ε Retusa piriformis (MONTEROSATO, 1878)
- AM Retusa truncatella (LOCARD, 1883)
- Retusa candidula (LOCARD, 1892)
- В Rhizorus acuminatus Bruguière, 1792
- IP Cylichnina girardi (AUDOUIN, 1826) [Bulla]
- Ε Cylichnina laevisculpta (Granata, 1877) [Cylichna] Ε Cylichnina crebrisculpta (Monterosato, 1844)
- Cylichnina multiquadrata (OBERLING, 1970)
- В Mamilloretusa mamillata (PHILIPPI, 1836) [Bulla]
- В Pyrunculus ovatus (JEFFREYS, 1871)
- E Pyrunculus minutissimus (Monterosato, 1878)

Familia Ringiculidae Philippi, 1853

Ringicula auriculata (MÉNARD de la GROYE, 1811)

= R. terquemi Morlet, 1882

- Ringicula buccinea (Brocchi, 1814) [Voluta] Ringicula (Ringiculina) nitida Verrill, 1873 B

= R. leptocheila Brugnone, 1873 = R. pulchella Jeffreys in Morlet, 1880

Ringicula conformis Monterosato, 1877 AM

? = R. minutula Locard, 1897

= R. admirabilis MORLET, 1882

= R. barashi Di Geronimo, 1975

= R. schlumbergeri MORLET, 1882 Ringicula abyssorum Morlet, 1882

Ringicula (Ringiculina) blanchardi Dautzenberg & H. Fischer, 1896

Familia Bullidae LAMARCK, 1801

Bulla striata Bruguière, 1789

AΤ Bulla amygdala DILLWYN, 1817

AM Bulla pinguicola G. SEGUENZA, 1879

Bulla roperiana Pilsbry, 1893

= B. subrotunda Jeffreys, 1873

Familia Haminoeidae Pilsbry, 1895

Haminoea hydatis (L. 1758) [Bulla]

? = Haminoea elegans LEACH, 1852

? = H. cymoelium Monterosato, 1923

AM Haminoea navicula (Costa, 1778) [Bulla]

AΤ Haminoea orbignyana (FERUSSAC, 1822)

Haminoea orteai Talavera, Murillo & Templado, 1987 Ε

E Atys blainvilliana (RÉCLUZ, 1843) [Bulla]

E Atys brocchii (MICHELOTTI, 1847) [Bulla]

Ē Atys jeffreysi (Weinkauff, 1866) [Cylichna]

E Atys globulinus Nordsieck, 1972

Ε Smaragdinella algirae (HANLEY, 1856)

AM Weinkauffia semistriata (RÉQUIEN, 1848) [Bulla]

= W. diaphana (Aradas & Maggiore, 1839) non Montagu, 1803

AM Weinkauffia turgidula (FORBES, 1844) [Bulla]

Familia Philinidae ASCANIUS, 1772

- Philine aperta (L., 1767) [Bulla]
- = P. quadripartita ASCANIUS, 1772
- В Philine scabra (Mueller, 1776) [Bulla] В Philine denticulata (J. Adams, 1800) [Bulla]
- = P. nitida JEFFREYS, 1867
- Philine punctata (J. Adams, 1800) [Bulla] В
- В Philine catena (Montagu, 1803) [Bulla]
- В Philine lima (Brown, 1827) [Utriculus]
- ΑT Philine quadrata (S. WOOD, 1839) [Bulla]
- Ε Philine intricata Monterosato, 1875)
- AM Philine monterosatoi (VAYSSIÈRE, 1885)
- Philinorbis sinuata (STIMPSON, 1851) R
- В Philinorbis angulata (JEFFREYS, 1867) [Ossiania]
- Ε Philinorbis vitrea (MONTEROSATO, 1875) [Philine]
- Е Johania retifera (FORBES, 1844) [Bulla]
- = Bulla vestita Philippi, 1844 В
- Laona flexuosa M. SARS, 1870
- = L. membranacea Monterosato, 1880 В Laona pruinosa (CLARK, 1827) [Bullaea]
 - ? = Philine flexuosa SARS

Familia Doridiidae Gray, 1847 = Aglajidae, Renier, 1807

- E Philinopsis depicta (RENIER, 1807) [Aglaja]
 - = D. depictum (Renier, 1807)= D. carnosum (Cuvier, 1810)
- Aglaja berrieri (DIEUZEIDE, 1935) [Doridium]
- Ē Aglaja coriacea (MECKEL, 1809)
- E
- Aglaja membranacea (MECKEL, 1809) [Doridium] = A. tricolorata RENIER, 1807 (non val. op. 316, ICZ, 1954) Aglaja taila (MARCUS & MARCUS, 1966) [Doridium]
- ΑT Melanochlamys seurati (VAYSSIERE, 1926) [Doridium] E
- ΙP Chelidonura fulvipunctata BABA, 1938
- = C. mediterranea Swennen, 1961 Chelidonura italica SORDI, 1980 Ε
- = C. africana: SORDI, 1976

Familia Gastropteridae Swainson, 1840

AM Gastropteron meckeli Kosse, 1813

Familia Cylichnidae H. & A. ADAMS, 1854

- В Cylichna cylindracea (Pennant, 1777) [Bulla]
- В Cylichna alba (Brown, 1827) [Volvaria]
- AM Cylichna striatula (FORBES, 1844)
- E Cylichna parvula JEFFREYS, 1883
- AM Cylichna crossei (B.D.D., 1886)
- Cylichna propecylindracea (De Gregorio, 1890)

Familia Scaphandridae G.O. SARS, 1878

- В Scaphander lignarius (L., 1758) [Bulla]
- В Scaphander punctostriatus (MIGHELS & ADAMS, 1841) [Bulla]
- AM Scaphander gracilis WATSON, 1886
- В Roxania utriculus (BROCCHI, 1814) [Bulla]
- AM Roxania semilaevis (G. SEGUENZA, 1880)
- AM Roxania monterosatoi (DAUTZENBERG & H. FISCHER, 1896)

Ordo PHILINOGLOSSACEA

Fam. Philinoglossidae Hertling, 1932

- В Philinoglossa helgolandica HERTLING, 1932
- В Philinoglossa remanei MARCUS & MARCUS, 1958
- В Philinoglossa praelongata SALVINI-PLAWEN, 1973
- Abavopsis latosoleata Salvini-Plawen, 1973

Ordo APLYSIOMORPHA PELSENEER, 1906

Familia Akeridae ODHNER, 1922

В Akera bullata Mueller, 1776

Familia Aplysiidae LAMARCK, 1809

- AM Aplysia (Aplysia) depilans GMELIN in L., 1791
- CTAplysia (Aplysia) juliana Quoy & Gaimard, 1832
- CT Aplysia (Pruvotaplysia) parvula Guilding in Mörch, 1863
- В Aplysia (Pruvotaplysia) punctata Cuvier, 1803
- CT Aplysia (Varria) fasciata Poiret, 1789
- CT Bursatella leachi leachi BLAINVILLE, 1817
 - = B. leachi savignyana Audouin, 1826

Familia Dolabriferidae PILSBRY, 1895

- ? Dolabrifera holboelli Bergh, 1872
- E Petalifera petalifera (RANG, 1828) [Aplysia] = Aplysiella virescens (RISSO, 1818) [Aplysia]
- IP Petalifera gravieri (VAYSSIÈRE, 1906) [Aplysiella] AM Phyllaplysia depressa (CANTRAINE, 1835) [Aplysia] = P. lafonti (P. FISCHER, 1870) [Dolabrifera]
 - = P. paulini MAZZARELLI, 1895 Notarchus punctatus PHILIPPI, 1836
- IP Notarchus indicus Schweigger, 1820

Ordo RUNCINACEA ODHNER, 1958

ΙP

Familia Runcinidae H. & A. ADAMS, 1854

- B Runcina coronata (Quatrefages, 1844) [Pelta] = R. hancocki Forbes in Forbes & Hanley, 1850 = R. calaritana Colosi, 1915
- E Runcina capreensis (MAZZARELLI, 1894) [Pelta]
- B Runcina ferruginea Kress, 1977
 AM Runcina africana Pruvot-Fol, 1953
 E Runcina adriatica Thompson, 1980
 E Runcina brenkoae Thompson, 1980
 E Runcina zavodniki Thompson, 1980
- AM Runcina aurata Garcia-Gomez, Lòpez, Luoue & Cervera, 1986

Ordo PLEUROBRANCHOMORPHA (= NOTASPIDEA FISCHER, 1883)

Familia Tylodinidae GRAY, 1847

AM Tylodina perversa (GMELIN in L., 1791) [Patella] = Tylodinella trinchesei MAZZARELLI, 1897

Familia Umbraculidae DALL, 1889

AM Umbraculum mediterraneum (LAMARCK, 1812) [Umbrella]

Familia Pleurobranchidae Deshayes, 1830

- B Pleurobranchus membranaceus (MONTAGU, 1815) [Lamellaria] = Gymnotoplax barashi Ev. MARCUS, 1977
- AT Pleurobranchus testudinarius CANTRAINE, 1835
- IP Pleurobranchus forskalii (RUEPPELL & LEUCKART, 1830) [Oscanius]
- B Berthella plumula (Montagu, 1803) [Bulla] = B. perforata (Philippi, 1844) [Pleurobranchus]
- AM Berthella aurantiaca (Risso, 1818) [Pleurobranchus]
 CT Berthella stellata (Risso, 1828) [Pleurobranchus]
- E Berthella ocellata (Delle Chiaje, 1820) [Pleurobranchus]
- ? Bertella elongata (CANTRAINE, 1835) [Pleurobranchus]
- CT Berthellina citrina (RUEPPELL & LEUCKART, 1830) [Pleurobranchus]

Familia Pleurobranchaeidae Pilsbry, 1896

- CT Pleurobranchaea meckelii Meckel in Leue, 1812 = P. notmec Ev. Marcus & Gosliner, 1984 = P. vayssièrei Ev. Marcus & Gosliner, 1984
- AT Pleurobranchaea inconspicua BERGH, 1897

Ordo SACOGLOSSA Von Ihering, 1876 (= ASCOGLOSSA Bergh, 1876)

Subordo CONCHOIDINA GASCOIGNE, 1985

Familia Volvatellidae Pilsbry, 1895

AM Ascobulla fragilis (JEFFREYS, 1856) [Cylichna]

Familia Oxynoidae H. & C. Adams, 1854

AM Oxynoe olivacea RAFINESOUE, 1814

Ε Lobiger serradifalci (CALCARA, 1840) [Bullaea]

Subordo Aconchoidina Gascoigne, 1985

Familia Elysiidae H. & A. ADAMS, 1854

CTElysia viridis (MONTAGU, 1804) [Laplysia]

= *E. fusca* Рніцірі, 1844

= E. minuta (M. SARS, 1835)

= E. margaritae Fez, 1962

= E. pagenstecheri Marcus, 1982 = E. fezi VILELLA, 1968

E. Elysia timida (Risso, 1818) [Notarchus] AM Elysia translucens Pruvot-Fol, 1957

AM Elysia flava VERRILL, 1901

Ē Elysia gordanae THOMPSON & JAKLIN, 1988

Ē Thuridilla hopei (VERANY, 1853) [Acteon]

Familia Bosellidae MARCUS, 1982

AT Bosellia mimetica Trinchese, 1891

Familia Polybranchiidae H. & A. Adams, 1854 = Caliphyllidae THIELE, 1912

Caliphylla mediterranea A. Costa, 1869 AΤ

Polybranchia borgninii (TRINCHESE, 1895/96) [Phyllobranchus] AM

ΑT Cyerce cristallina (Trinchese, 1881) [Lobiancoia]

Ē Cyerce graeca THOMPSON, 1988

Familia Hermaeidae H. & A. Adams, 1854

Hermaea bifida (Montagu, 1815) [Doris]

CHermaea (Placida) dendritica (ALDER & HANCOCK, 1843) [Calliopaea]

= H. brevicornis A. Costa, 1867

Hermaea (Placida) viridis (TRINCHESE, 1873) [Laura]

ΙP Hermaea cremoniana Trinchese, 1892 = Ercolania trinchesii Pruvot-Fol, 1951

= H. carminis Fez, 1962

Hermaea paucicirra Pruvot-Fol, 1953 AM

Hermaea (Placida) verticillata (ORTEA, 1981) AM

Ε Hermaea (Placida) saronica THOMPSON, 1988

AM Hermaeopsis variopicta A. Costa, 1869

Aplysiopsis elegans Deshayes, 1839/53 Ε Ε

Costasiella virescens Pruvot-Fol, 1951

Familia Stiligeridae IREDALE & O'DONOGUE, 1923

- AT Ercolania coerulea Trinchese, 1892
 - = E. costai Pruvot-Fol, 1951
 - = Stiliger cricetus MARCUS & MARCUS, 1970
- AM Ercolania funerea (A. Costa, 1867) [Embletonia]
 - = *E. viridis* (A. Costa, 1867)
- = E. siottti Trinchese, 1872 B Calliopaea bellula D'Orbigny, 1837
- B Limapontia capitata (O.F. Mueller, 1773) [Fasciola]
- ? Limapontia depressa Alder & Hancock, 1862

Familia Alderiidae

- ? Alderia modesta (Lovén, 1844) [Stiliger]
- E Alderella comosa (A. Costa, 1867) [Alderia]

Subordo PLATYHEDYLINA RANKIN, 1979

Familia Platyhedylidae SALVINI-PLAWEN, 1973

E Platyhedyle denudata SALVINI-PLAWEN, 1973

Ordo ACOCHLIDIACEA ODHNER, 1937

Familia Hedylopsidae ODHNER, 1952

- AM Hedylopsis spiculifera (Kowalewsky, 1901) [Hedyle]
- B Hedylopsis suecica ODHNER, 1937

Familia Asperspinidae RANKIN, 1952

E Asperspina rhopalotecta (Salvini-Plawen, 1973) [Hedylopsis]

Familia Microhedylidae ODHNER, 1937

- AM Stellaspina glandulifera (KOWALEWSKY, 1901) [Hedyle] = Microhedyle lactea (HERTLING, 1930)
- AT Pontohedyle milaschewitchii (Kowaleswky, 1901) [Hedyle]
- E Microhedyle tirtowii (Kowalewsky, 1901) [Parhedyle]
- E Microhedyle cryptopthalma Westheide & Wawra, 1974
- E Microhedyle odhneri (Marcus & Marcus, 1955) [Unela]
- E Microhedyle glomerans Salvini-Plawen, 1973
- ? Microhedyle neapolitana (RANKIN, 1979)

Ordo NUDIBRANCHIA BLAINVILLE, 1814

Subordo DORIDINA ODHNER, 1934

Superfamilia ANADORIDOIDEA ODHNER, 1934

Familia Goniodorididae H. & A. ADAMS, 1854

- B Goniodoris nodosa (Montagu, 1808) [Doris]
- C Goniodoris castanea Alder & Hancock, 1845
- ? Goniodoris barroisi VAYSSIÈRE, 1901
- B Okenia quadricornis (Montagu, 1815) [Doris]
- B Okenia elegans (LEUCKART, 1828) [Idalia]
- B Okenia leachi (Alder & Hancock, 1854) [Idalia]
- E Okenia mediterranea (Von Ihering, 1885) [Idalia]
- AT Okenia impexa Er. Marcus, 1957
- B Ancula gibbosa (Risso, 1818) [Tritonia]
- AM Trapania fusca (LAFONT, 1874) [Drepania]
 - ? = T. graeffei (BERGH, 1880)

AM Trapania tartanella (Von Ihering, 1885) [Drepania]

E Trapania lineata HAEFELFINGER, 1960

AM Trapania maculata HAEFELFINGER, 1960

B Trapania pallida Kress, 1968

AM Trapania orteai Garcia-Gomez & Cervera, 1988

A. Trapania hispalensis Cervera & Garcia-Gomez, 1988

Familia Onchidorididae ALDER & HANCOCK, 1845

AM Onchidoris neapolitana (Delle Chiaje, 1841) [Idalia]

= O. graeffei (BERGH, 1890)

- Onchidoris depressa (Alder & Hancock, 1842) [Doris]
 Onchidoris sparsa (Alder & Hancock, 1846) [Doris]
 Onchidoris bouvieri (Vayssière, 1919) [Lamellidoris]
- E Onchidoris albonigra (PRUVOT-FOL, 1951) [Lamellidoris]
 B Diaphorodoris luteocincta (M. SARS, 1870) [Doris]
- E Diaphorodoris papillata Portmann & Sandmeier, 1960
- B Acanthodoris pilosa (Albildgaard in Mueller, 1789) [Doris]
- B Adalaria proxima (ALDER & HANCOCK, 1854) [Doris]

Familia Triophidae ODHNER, 1941

IP Plocamopherus ocellatus Rueppell. & Leuckart, 1828
 IP Kaloplocamus ramosus (Cantraine, 1835) [Doris]
 E Kaloplocamus filosus Cattaneo-Vietti & Sordi, 1987

B Crimora papillata ALDER & HANCOCK, 1862

Famiglia Aegiretidae P. FISCHER, 1883

AM Aegires punctilucens (D'Orbigny, 1837) [Polycera]

AM Aegires leuckarti VERANY, 1853

AM Aegires sublaevis ODHNER, 1932

Superfamilia EUDORIDOIDEA ODHNER, 1934 = CRYPTOBRANCHIA FISCHER, 1883

Familia Dorididae RAFINESQUE, 1815

AT Doris verrucosa L., 1758

E Doris marmorata Risso, 1818

AM Doris bertheloti (D'Orbigny, 1839) [Doridigitata] AM Doris ocelligera (Bergh, 1881) [Staurodoris]

E Doris bicolor (BERGH, 1884) [Staurodoris]

= D. pulchella Aradas, 1847

Poris pseudoverrucosa (Von Ihering, 1886) [Staurodoris]
B Doris sticta (Iredale & D'Donoghue, 1923) [Doridigitata]

= D. maculata GARSTANG, 1895 AM Doris (?) alboranica BOUCHET, 1977

Familia Chromodorididae BERGH, 1892

B Cadlina laevis (L., 1767) [Doris]

AM Cadlina pellucida (Risso, 1826) [Doris]

? Cadlina excavata (Pruvot-Fol., 1951) [Echinochila]

? Chromodoris quadricolor quadricolor (Rueppell & Leuckart, 1828) [Doris]

AM Chromodoris purpurea (RISSO in GUERIN, 1831) [Doris]

E Chromodoris elegantula (PHILIPPI, 1844) [Doris] AM Chromodoris krohnii (Verany, 1846) [Doris]

AM Chromodoris luteorosea (RAPP, 1846) [Doris]

AM Chromodoris luteopunctata (GANTÈS, 1962) [Glossodoris]

AM Chromodoris britoi Ortea & Perez, 1982

= C. clenchi: MIENIS, 1983

E Chromodoris lilybaetana GARCIA-GOMEZ, CATTANEO-VIETTI & CHEMELLO, in press

- AM Hypselodoris villafranca (RISSO, 1818) [Doris] AM Hypselodoris elegans (CANTRAINE, 1835) [Dor
- AM Hypselodoris elegans (Cantraine, 1835) [Doris] AM Hypselodoris tricolor (Cantraine, 1835) [Doris]
- ? Hypselodoris coelestis (Deshayes, 1866) [Goniodoris]
- AM Hypselodoris messinensis (Von Ihering, 1880) [Chromodoris] IP Hypselodoris infucata (Rueppell & Leuckart, 1831) [Doris]
 - = Glossodoris runcinata (BERGH, 1877)
- ? Hypselodoris fontandraui (PRUVOT-FOL, 1951) [Glossodoris]
- AM Hypselodoris webbi (D'Orbigny, 1839) [Polycera] = Glossodoris edenticulata White, 1952
- AM Hypselodoris bilineata (Pruvot-Fol, 1953) [Glossodoris)
- AM Hypselodoris cantabrica BOUCHET & ORTEA, 1980

Familia Aldisidae ODHNER, 1933

- AM Aldisa banyulensis Pruvot-Fol, 1951
- AM Aldisa binotata PRUVOT-FOL, 1953
 - = ? A. smaragdina Ortea, Perez & Llera, 1982

Familia Rostangidae PRUVOT-FOL, 1951

B Rostanga rubra (RISSO, 1818) [Doris] = R. perspicillata BERGH, 1881

Fam. Archidorididae BERGH, 1892

- B Archidoris pseudoargus (RAPP, 1827) [Doris]
- = A. tuberculata (CUVIER, 1804) [Doris]
 AT Atagema rugosa PRUVOT-FOL. 1951
- AT Atagema rugosa Pruvot-Fol, 1951 B Atagema gibba Pruvot-Fol, 1951
- E Anisodoris marmorata (BERGH, 1881) [Archidoris]

Familia Halgerdidae ODHNER, 1926

IP Sclerodoris cf. tuberculata ELIOT, 1904

Familia Discodorididae BERGH, 1891

- B Geitodoris planata (ALDER & HANCOCK, 1846) [Doris]
 - = Archidoris stellifera VAYSSIÈRE, 1904
- Geitodoris joubini (VAYSSIÈRE, 1919) [Carryodoris]
- E Geitodoris portmanni (SCHMEKEL, 1970) [Carryodoris]
- AM Geitodoris bonosi Ortea & Ballesteros, 1981
- CT Discodoris fragilis (ALDER & HANCOCK, 1864) [Doris]
- AM Discodoris maculosa Bergh, 1884
- ? Discodoris erubescens BERGH, 1884
- E Discodoris rubens, VAYSSIÈRE, 1919
- IP Discodoris concinna (ALDER & HANCOCK, 1864) [Doris]
- AM Discodoris rosi Ortea, 1979
- E Peltodoris atromaculata BERGH, 1880
- E Thordisa pallida BERGH, 1884
- E Thordisa aurea PRUVOT-FOL, 1951
- E Thordisa filix PRUVOT-FOL, 1951
- AM Thordisa azmanii Cervera & Garcia Gomez, in press
- E Paradoris granulata BERGH, 1884
- AM Paradoris indecora (BERGH, 1881) [Discodoris]
 - = Discodoris cavernae Starmuelhner, 1955

Familia Kentrodorididae BERGH, 1892

- В Jorunna tomentosa (Cuvier, 1804) [Doris]
- = I. luisae Ev. Marcus, 1976
- Iorunna? atypha BERGH, 1881
- AM Jorunna onubensis CERVERA, GARCIA & GARCIA, 1984

Familia Platvdorididae Bergh, 1891

- AM Platydoris argo (L. 1767) [Doris]
 - = Doris infranaevata Abraham, 1877
- Ε Platydoris philippi BERGH, 1877
- Platydoris dura PRUVOT FOL, 1951
- AM Platydoris maculata BOUCHET, 1977
- Carminodoris boucheti ORTEA, 1979 AM
- E Taringa armata Swennen, 1961
- E. Taringa faba Ballesteros, Llera & Ortea, 1982
- E Taringa oleica Ortea, Perez & Llera, 1982
- E. Taringa pinoi Perrone, 1985

Familia Baptodoridae ODHNER, 1926

- Baptodoris cinnabarina Bergh, 1884
- AM Baptodoris perezi Llera & Ortea, 1982

Superfamilia POLYCERATOIDEA

Familia Polyceridae Alder & Hancock, 1845

- R Polycera quadrilineata (O.F. MUELLER, 1776) [Doris]
- В Polycera faeroensis Lemche, 1929
- E Polycera maculata PRUVOT-FOL, 1951
- CT Polycera hedgpethi Marcus, 1964
- Ε Polycera aurantiomarginata GARCIA & BOBO, 1984
- R Greilada elegans BERGH, 1894
- R Palio dubia (SARS, 1829) [Polycera]
- AT Polycerella emertoni VERRILL, 1881
 - $= \dot{P}$. conyna Marcus, 1957
 - = P. recondita SCHMEKEL, 1965
- CTThecacera pennigera (Montagu, 1815) [Doris]
- AT Limacia clavigera (O.F. Mueller, 1776) [Doris]

Fam. Gymnodorididae ODHNER, 1941

- Roboastra europea GARCIA-GOMEZ, 1985
- Ε Tambia ceutae GARCIA-GOMEZ & ORTEA, 1988

Superfamilia POROSTOMATA BERGH, 1892

Fam. Phyllidiidae RAFINESQUE, 1815

- E Phyllidia flava Aradas, 1847
 - = P. rolandiae Pruvot-Fol, 1951
 - = P. aurata Pruvot-Fol, 1952

 - = P. papillosa Aradas, 1847 = P. depressa Aradas, 1847 = P. pulitzeri Pruvot-Fol, 1962
- E Reyfria bayi (BOUCHET, 1983) [Fryeria]

Fam. Dendrodorididae O'Donoghue, 1924

- AM Dendrodoris limbata (Cuvier, 1804) [Doris] Dendrodoris grandiflora (RAPP, 1827) [Doris] AM ΙP Dendrodoris nigra (STIMPSON, 1855) [Doris]
- Dendrodoris inornata (ABRAHAM, 1876) [Doridopsis] Dendrodoris longula Pruvot-Fol, 1951
- Dendrodoris racemosa Pruvot-Fol, 1951
- AM Dendrodoris languida Pruvot-Fol, 1951 Dendrodoris minima Pruvot-Fol, 1951
- AM Dendrodoris pseudorubra Pruvot-Fol, 1951
- AM Doriopsilla rarispina Pruvot-Fol, 1951
- AΤ Doriopsilla areolata Bergh, 1880
- AM Doriopsilla pusilla PRUVOT-FOL, 1951
- AM Doriopsilla evanae Ballesteros & Ortea, 1980

Subordo Dendronotina Odhner, 1934

Familia Tritoniidae H. & A. ADAMS, 1858

- В Tritonia hombergii Cuvier, 1803
- В Tritonia plebeia Johnston, 1828
- В Tritonia lineata Alder & Hancock, 1848 AM Tritonia manicata Deshayes, 1853
- Ε Tritonia striata HAEFELFINGER, 1963
- ĀT Tritonia nilsodhneri Ev. MARCUS, 1983
- = T. odbneri TARDY, 1963
- Ε Tritoniopsis cincta (PRUVOT-FOL, 1937) [Tritonia]
- Ε Marionia blainvillea (Risso, 1818) [Tritonia]
- Ε Marionia tethydea (DELLE CHIAJE, 1828) [Tritonia]

Familia Lomanotidae BERGH, 1892

Lomanotus genei VERANY, 1846

Familia Dotidae Gray, 1853

- В Doto coronata (GMELIN in L., 1791) [Doris]
- 5 Doto pinnatifida (Montagu, 1804) [Doris]
- Doto fragilis (FORBES, 1838) [Melibaea] В Doto cuspidata ALDER & HANCOCK, 1862
- AT Doto rosea Trinchese, 1881
- Ε Doto paulinae Trinchese, 1881
- AM Doto floridicola SIMROTH, 1888 = D. susanae Fez, 1962
- E Doto pontica Swennen, 1961
- ΑT Doto doerga Marcus & Marcus, 1963 Doto leopardina VICENTE, 1967
- E Doto acuta Schmekel, & Kress, 1977
- E Doto furva GARCIA, & GOMEZ ORTEA RATO, 1983
- В Doto dunnei Lemche, 1976 В Doto koenneckeri Lemche, 1976
- E Doto fragaria ORTEA & BOUCHET, 1988
- E Doto cervicenigra Ortea & Bouchet, 1988

Familia Hancockiidae PRUVOT-FOL, 1954

AM Hancockia uncinata (HESSE, 1872) [Doto]

Familia Tethyidae ALDER & HANCOCK, 1855

AM Tethys fimbria L., 1767

IΡ

Melibe fimbriata ALDER & HANCOCK, 1864

Familia Scyllaeidae FISCHER, 1883

Scyllaea pelagica L., 1758

Familia Phylliroidae Fèrussac, 1821

CTPhylliroe bucephala Peron & Lesueur, 1810 = P. sanzoi Sparta, 1925

Phylliroe atlantica BERGH, 1871

AM Cephalopyge trematoides CHUN, 1889

= C. mediterranea (PIERANTONI, 1923) [Boopsis]

Subordo Arminina Odhner, 1934

Superfamilia EUARMINOIDEA ODHNER in FRANC, 1968

Familia Arminidae Pruvot-Fol, 1927

AM Armina tigrina RAFINESQUE, 1814

AM Armina maculata RAFINESQUE, 1814

= Diphyllidia verrucosa CANTRAINE, 1841 = Diphyllidia pustulosa Schultz, 1836

AM Armina neapolitana (Delle Chiaje, 1824) [Pleurophyllidia]

= Pleurophyllidia lineolata Delle Chiaje, 1841

F. Armina tricuspidata THOMPSON, CATTANEO-VIETTI & WONG, in press

E Linguella elforti BLAINVILLE, 1825

= ? Linguella quadrilateralis (BERGH, 1860) [Sancara]

Superfamilia METARMINOIDEA ODHNER in FRANC, 1968

Familia Madrellidae VAYSSIÈRE, 1909

IΡ Madrella sanguinea (ANGAS, 1864) [Janus]

= M. aurantiaca VAYSSIÈRE, 1902

Eliotia souleyeti VAYSSIÈRE, 1909

Familia Janolidae PRUVOT-FOL, 1954

В Janolus cristatus (Delle Chiaje, 1841) [Eolis]

В Janolus hyalinus Alder & Hancock, 1854) [Antiopa]

Proctonotus mucroniferus (ALDER & HANCOCK, 1844) [Venilia]

Familia Heroidae BERGH, 1892

Ε Hero blanchardi VAYSSIÈRE, 1888

Subordo AEOLIDIINA Odhner, 1934

Familia Flabellinidae BERGH, 1889

- B Coryphella pedata (Montagu, 1815) [Doris]
- ? Coryphella verrucosa (M. SARS, 1829) [Eolidia]
- Coryphella pellucida (Alder & Hancock, 1843) [Eolis]
- B Coryphella lineata (Lovèn, 1846) [Aeolis]
- E Calmella cavolinii (Vérany, 1846) [Eolidia]
- AM Flabellina affinis (GMELIN in L., 1791) [Doris]
- E Flabellina babai Schmekel, 1972
- E Flabellina baetica GARCIA GOMEZ, 1984
- AM Flabellina insolita GARCIA-GOMEZ & CERVERA, in press
- E Flabellina ischitana HIRANO & THOMPSON, in press

Familia Piseinotecidae EDMUNDS, 1870

- AM Piseinotecus sphaeriferus (Schmekel, 1965) [Calmella]
- E Piseinotecus gabinierei (VICENTE, 1975) [Facelina]
 - = P. evelinae SCHMEKEL, 1980
- E Piseinotecus gaditanus CERVERA, GARCIA & GARCIA, 1986

Familia Facelinidae BERGH, 1889

- E Antonietta luteorufa Schmekel, 1966
- ? Rolandia hispanica Pruvot-Fol, 1951
- B Caloria elegans (ALDER & HANCOCK, 1845) [Eolis]
- E Facelinopsis marioni (VAYSSIÈRE, 1888) [Facelina]
- B Facelina annulicornis (Chamisso & Eisenhart, 1821) [Eolidia]
- B Facelina bostoniensis (Couthouy 1838) [Eolis] = Eolis curta Alder & Hancock, 1843
- B Facelina coronata (Forbes & Goodsir, 1839) [Eolida]
 - = F. auriculata (MUELLER, 1776) [Doris]
- E Facelina rubrovittata (A. Costa, 1866) [Aeolis]
- ? Facelina lugubris (BERGH, 1882) [Acanthopsole]
- ? Facelina vicina (BERGH, 1883) [Acanthopsole]
- B Facelina dubia PRUVOT-FOL, 1948
- ? Facelina rutila Pruvot-Fol, 1951
- E Facelina fusca Schmekel, 1966
- E Cratena peregrina (GMELIN in L., 1791) [Doris]
- E Godiva banyulensis (PORTMANN & SANDMEIER, 1960) [Dondice] = Dondice nicolae Vicente, 1967

Familia Favorinidae BERGH, 1890

- B Favorinus branchialis (RATHKE, 1806) [Doris]
- AM Favorinus vitreus ORTEA, 1982
- B Dicata odhneri Schmekel, 1967
 - = Favorinus albus: ODHNER, 1914

Familia Glaucidae MENKE, 1828

CT Glaucus atlanticus Forster, 1777

Familia Aeolidiidae D'Orbigny, 1834

- B Aeolidiella rubra (ALDER & HANCOCK, 1835) [Cavolina]
- ? Aeolidiella glauca (Alder & Hancock, 1845) [Eolis]
- B Aeolidiella alderi (COCKS, 1852) [Eolis]
 IP Aeolidiella takanosimensis BABA 1930
- IP Aeolidiella takanosimensis BABA, 1930 = A. orientalis Bergh, 1888 var. takanosimensis
- AT Spurilla neapolitana (Delle Chiaje, 1841/44) [Eolis]
- AM Spurilla vayssierei Garcia Gomez & Cervera, 1985
- AM Spurilla columbina GARCIA GOMEZ & THOMPSON, in press
- AT Berghia coerulescens (LAURILLARD, 1830) [Eolidia]
- AM Berghia verrucicornis (A. Costa, 1864) [Flabellina]
- CT Baeolidia nodosa (HAEFELFINGER & STAMM, 1958) [Limenandra]

Familia Eubranchidae ODHNER, 1934

- ? Eubranchus tricolor Forbes, 1838
- B Eubranchus pallidus (Alder & Hancock, 1842) [Eolis]
- B Eubranchus vittatus (ALDER & HANCOCK, 1842) [Eolis]
- B Eubranchus cingulatus (Alder & Hancock, 1847) [Eolis]
- B Eubranchus farrani (Alder & Hancock, 1847) [Eolis]
- B Eubranchus exiguus (ALDER & HANCOCK, 1848) [Eolis]
- B Eubranchus doriae (Trinchese, 1874) [Capellinia]

Familia Pseudovermidae THIELE, 1931

- E Pseudovermis paradoxus Periaslavzev, 1891
- E Pseudovermis papillifer Kowalewsky, 1901
- AM Pseudovermis schulzi Marcus & Marcus, 1955
- E Pseudovermis axi Marcus & Marcus, 1955
- E Pseudovermis setensis Fize, 1961
- B Pseudovermis boadeni Salvini-Plawen & Sterrer, 1968
- E Pseudovermis kowalewskyi Salvini-Plawen & Sterrer, 1968

Familia Tergipedidae Bergh, 1889

- AT Tergipes tergipes (Forskal, 1775) [Limax]
 - = T. despectus (Johnston, 1838)
 - = T. edwardsii NORDMANN, 1844
- B Cuthona caerulea (Montagu, 1804) [Doris]
- B Cuthona foliata (Forbes & Goodsir, 1839)
- B Cuthona amoena (Alder & Hancock, 1845) [Eolis]
- E Cuthona genovae (O'DONOGHUE, 1939) [Cratena]
- E Cuthona granosa (SCHMEKEL, 1966) [Trinchesia]
- E Cuthona ocellata (SCHMEKEL, 1966) [Trinchesia]
- AM Cuthona ilonae (SCHMEKEL, 1968) [Trinchesia]
- E Cuthona miniostriata (SCHMEKEL, 1968) [Trinchesia]
- E Cuthona albopunctata (SCHMEKEL, 1968) [Trinchesia]
- B Catriona gymnota (Couthouy, 1838) [Eolis]
- = C. aurantia Alder & Hancock, 1842
- AT Catriona maua MARCUS & MARCUS, 1960
- C Tenellia adspersa (NORDMANN, 1845) [Tergipes]
 - = T. pallida (Alder & Hancock, 1842) [Embletonia]

Familia Embletoniidae PRUVOT-FOL, 1954

B Embletonia pulchra Alder & Hancock, 1851

Familia Calmidae IREDALE & O'DONOGHUE, 1923

B Calma glaucoides (ALDER & HANCOCK, 1854) [Eolis]

Familia Fionidae ALDER & HANCOCK, 1855

C Fiona pinnata (Eschscholtz, 1831) [Eolidia]